



...AGGATCGTGCATGGCTAGCTGATTCCGTATCCGTTC...

Most DNA bases are invariant in a population or species...

But some are variable:

Individual 1 { ...AGGATCGTGCATGGCT**A**GCTGATTCCGTATCCGTTC...
 ...AGGATCGTGCATGGCT**G**GCTGATTCCGTATCCGTTC...

Individual 2 { ...AGGATCGTGCATGGCT**A**GCTGATTCCGTATCCGTTC...
 ...AGGATCGTGCATGGCT**A**GCTGATTCCGTATCCGTTC...

Individual 3 { ...AGGATCGTGCATGGCT**G**GCTGATTCCGTATCCGTTC...
 ...AGGATCGTGCATGGCT**G**GCTGATTCCGTATCCGTTC...

Individual 4 { ...AGGATCGTGCATGGCT**A**GCTGATTCCGTATCCGTTC...
 ...AGGATCGTGCATGGCT**A**GCTGATTCCGTATCCGTTC...

The variant sites are called Single Nucleotide Polymorphisms (SNPS)